

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A circuit arrangement for obtaining an output signal from a signal containing at least one alternating component, said circuit arrangement comprising
a signal source that supplies this signal,
a first peak value detection device for determining a maximum value (V_{max}) of the signal,
a second peak value detection device for determining a minimum value of the signal,
a first signal linking device for obtaining a first resulting signal by additive linking of the signal, the maximum value and the minimum value in accordance with the rule

$$V1 = K1 * \{Vs - (V_{max} + V_{min})/2\},$$

in which $K1$ is a freely selectable first constant factor,

a second signal linking device for obtaining a second resulting signal by additive linking of the maximum value and minimum value (V_{min}) in accordance with the rule

$$V2 = (V_{max} - V_{min}) * K2,$$

in which $K2$ is a freely selectable second constant factor,

a first squaring device for squaring the first resulting signal, a second squaring device for squaring the second resulting signal and a third signal linking device for

obtaining the output signal by additive linking of the squared first resulting signal and the squared second resulting signal in accordance with the rule

$$V_a = K_3 * \{(1/8) * (K_1/K_2)^2 * (V_2)^2 - (V_1)^2\},$$

in which K3 is a freely selectable third constant factor.

2. (previously presented) A circuit arrangement as claimed in claim 1, characterized in that the signal source is formed by a sensor device.

3. (previously presented) A circuit arrangement as claimed in claim 2, characterized in that the sensor device is designed as a magnetoresistive sensor device.

4. (previously presented) A rotational speed measurement device, characterized by a circuit arrangement as claimed in claim 1.

5. (currently amended) A method of measuring rotational speed of an object, the method comprising:

obtaining a signal containing at least one alternating component;

~~obtaining an output signal from a signal containing at least one alternating component, said method comprising the following method steps:~~

determining a maximum value of the signal,

determining a minimum value of the signal,

obtaining a first resulting signal by additive linking of the signal, the maximum value and the minimum value in accordance with the rule

$$V_1 = K_1 * \{V_s - (V_{\max} + V_{\min})/2\},$$

in which K1 is a freely selectable first constant factor,

obtaining a second resulting signal by additive linking of the maximum value and minimum value in accordance with the rule

$$V2=(V_{\max}-V_{\min})*K2,$$

in which K2 is a freely selectable second constant factor,
squaring the first resulting signal,
squaring the second resulting signal, and
obtaining the output signal by additive linking of the squared first resulting signal
and the squared second resulting signal in accordance with the rule

$$V_a=K3*\{(1/8)*(K1/K2)^2*(V2)^2-(V1)^2\},$$

in which K3 is a freely selectable third constant factor; and
generating a rotational speed measurement as a function of the output signal.